GREATEST IRON FIELD IN THE WORLD

Two counties of Utah contain greater | works at Pueblo at a heavy cost in | the product of those resources. That | the most casual inquiry, that the Utah deposits of iron ore than Pennsylvania, transportation charges, to be treated market is the Orient. famed the world over for its production of such ore, and when the iron industry of Utah is developed it will to transport its own ore a comparaer quantities than Pennsylvania ever produced or ever will produce.

This is not mere idle assertion. is the deliberate judgment of iron experts from Pennsylvania and other eastern iron regions who have visited the localities where Utah's iron ore deposits are located, and who have made a detailed examination of those

The two counties which contain these deposits are Iron and Washing- ing. ton counties, in the southwestern corner of Utah. Plans for developing these immense deposits are maturing rapidly, and the time is not far distant states of the Union in its production

To Develop the Industry.

a corporation controlled by the Rockesurface in conical peaks or ridges—literally mountains of iron ore. This Rockefeller interests. ore runs from 45 to 60 per cent of iron, and about 3,000,000 tons of the ore are

Grande Western railway system. Transportation, of course, is the first essential factor in the development of the iron industry, as it is indeed in the dustry. And the Gould-Rockefeller in-

Will Extend Rio Grande.

is to build a branch line starting at tor Clark and his associates had in once the old world is now the new; agination of man, but with every day Farnham on the main line of the Rio mind in building it was the fact that that where civilization is today making its demand for the products which Utah Grande Western road, thence through along its route and tributary thereto ago, civilization is today making its demand for the products which Utah Castle valley, touching at Castledale, were untold deposits of the richest Ferron and other points; thence minerals known to the mining and in- fields for industrial development of the which cannot be captured by the southern terminus of the Sanpete road depends in large measure upon the branch of the Rio Grande. From this point, Marysvale, several surveys have the chief of which is the now under the human race. been made for the extension of the veloped iron industry of southern road, all of them having for the ulti- Utah. mate objective the section where the The western terminus of the San

iron holdings. tablish a blast furnace at some point the best harbors on the Pacific coast. on the Rio Grande road, probably at The daring minds who conceived the Green River, Utah, where it will make idea of building the Salt Lake road pig iron and possibly steel billets, and through the desert are also projectthen carry this product to its main ing a line of steamships between San iron and steel works at Pueblo, Colo., Pedro harbor and the Orient, and it is where it will be manufactured into on that line of steamships that the steel rails, structural steel and other Utah iron product will be conveyed to finished iron products.

Product Is Needed Badly.

opment of the Utah iron fields it need San Pedro harbor would never be built. only be cited that for two or three But it has been built; and the interests

With the development of its Utah properties the company will be able

curately say that the extension of the Rio Grande Western railroad into the Iron Mountain district is a matter of only a short time comparatively speak-

Another Road Into District.

The Colorado Fuel & Iron company, probably have its beginning at Lund, one of the stations on the main line feller interests, has acquired immense and will be much shorter, and will inholdings of iron ore bodies in Iron volve much less railroad construction county. The ore here is found on the than the promised extension of the Rio Grande Western system by the Gould-

The construction of this branch has

Market in the Orient.

One of the chief, if not the greatest market for Utah iron and its finished development of every other large in- products, will be in the rOient. In this connection the building of the San Peterests, to supply this element, are dro, Los Angeles & Salt Lake road has planning an extension of their railway been an untold blessing to the yet unsystem into the field where are lo- born iron industry of Utah. That road cated their tremendous iron interests. extends from Salt Lake to San Pedro harbor on the Pacific caoast. It was Their plan, as generally understood, One of the chief objects which Senato build a branch line starting at tor Clark and his associates had in the Salina canyon to the dustrial world. The prosperity of the new century upon which mankind has states of the far east,

Colorado Fuel & Iron company has its Pedro, Los Angeles & Salt Lake road or, as it is known, the "Salt Lake e plan of the company is to es- Route"-is San Pedro harbor, one of the land of the setting sun.

To show the necessity for the devel- through the desert from Salt Lake to

Japanese Natural Ironmongers.

The Japanese are the natural ironmongers of the Orient. At present they produce iron and its products in great- tively short distance over a railway depend for their supply of iron ore in sufficiently large quantities, can be line controlled by itself—or rather by the same men who control the fuel and iron company—then reduce it to pig.

It sufficiently large quantities, can be issue, for it guarantees an unimate of the same men who control the fuel and tions of China. It is a fact known to cheaper figure than the first cost of immense iron resources.

The sufficiently large quantities, can be issue, for it guarantees an unimate of the same men who control the fuel and tions of China. It is a fact known to cheaper figure than the first cost of immense iron resources. iron company—then reduce it to pig iron and, when that is done, carry it over the same railroad to its main works at Pueblo, where it can be manmedous strides which the Japanese reduction of Utan for 1905, around the eastern end of the finished product.

The coal production of Utan for 1905, around the eastern end of the finished product in Pittsburg and other eastern iron centers, and, when the same railroad to its main inferior quality; and, with the tremendous strides which the Japanese reduction of Utan for 1905, around the eastern end of the finished product in Pittsburg and other eastern iron centers, and, when the same full that the ore of Korea and China is of an inferior quality; and, with the tremendous strides which the Japanese reduction of Utan for 1905, around the eastern end of the finished by the cost of transportation from these eastern iron centers, and, when the same railroad to its main inferior quality; and, with the tremendous strides which the Japanese reduction of Utan for 1905, around the eastern end of the finished by the same railroad to its main inferior quality; and, with the tremendous strides which the Japanese reduction of Utan for 1905, around the eastern end of the finished by the cost of transportation from these eastern iron centers, and other eastern iron centers, and other that the ore of Korea and China is of an inferior quality; and, with the trest cost in Pittsburg and other that the ore of Korea and China is of an inferior quality; and, with the trest cost in Pittsburg and other that the ore of Korea and China is of an inferior quality; and, with the trest cost in Pittsburg and other that the ore of Korea and China is of an inferior quality; and, with the trest cost in Pittsburg and other than the original products in Pittsb iron company—then reduce it to pig iron experts the world over, however, such products in Pittsburg and other known to civilization, it follows as a tion, the advantage which will be en-

a product of superior quality. All this has been figured out by the captains of industry who are interested in the development of the Utah iron industry. They see that eventually But this is not the only railroad the Japanese must exercise their skill find a market. This is an era of railrapidly, and the time is not far distant which will build into the Iron Moun-when Utah will rank first among the states of the Utah product is near-states of the Utah product is neargeles & Salt Lake road, which was er by thousands of miles than any structed by the great railway systems completed early last year, will even- other considerable body of iron ore in into the uttermost parts of the Amertually build a branch into the district the United States, and transportation loan west. Communities hitherto isoits main line. This road will charges are less in proportion to the lated are being brought into touch with distance to be traversed.

Will Buy American Pig Iron. means that when the Utah iron fields sions of the next fifty years in this high. are developed, the Japanese will buy western country. Utah pig iron and steel billets; that it This era of railroad building means thereby exposing the nearly horizontal will be transported to Japan in Amer- an enormous market for steel rails and been promised by President W. A. ican vessels from San Pedro harbor, other iron products. It has been pointand that the little brown men, to ed out how western manufactured iron here would net an annual profit of 20 whose greatness the world is just products can outsell the eastern products, with a probable profit of 60 steel rails, their own structural steel and their own structural steel and their own iron and steel products of every kind and character. There is no doubt that immense works to turn out finished steel products will be erected in Utah also.

In this article space cannot be devoted to a panegyric upon the future to the development of the past quarter century in the past quarter century in the past quarter century in steel and underbid the east in the markets of the western states. In the markets of the western states. In the markets of the western states. The iron industry is a stable one. The demand for iron products follows:

The iron industry is a stable one. The demand for iron products follows:

The demand

And so Utah crude iron products will find a market not alone in Japan, but the finished products of these same is known as the "Bull Valley" region the finished products of these same Utah iron mines will find markets in untouched. other portions of the Orient. Human experience has shown that human fields. power to develop countries that, to the eye of inexperience seem barren and have built up are what the future holds sterile, is practically unlimited, and, in store for those who uncover to the with the establishment of steamship world the iron resources of Utah. Nor One-half ton of limestone, at 60 lines from San Pedro to the Orient, will the prosperity come alone to the will come an era when the products of operators; it will come to untold thou-

No man familiar with the iron industry in America needs to be told but it has been built; and the interests of the men who built it are indissolution and transporting the crude ore to its

But it has been built; and the interests of the men who built it are indissolution products developed, Utah will enjoy practically a monopoly of the Oriental fron trade. It is a fact which any person sufficiently interested can demonstrate by even of the courter who visated that an examined into her resources of iron ore, estimat that, with the Utah iron products de- dustry.

product can be sold much cheaper in the Orient than the product of the east-

ern states. It is a fact that steel rails and other matter of course that they must find joyed by Utah iron operators is apparent to everyone.

Market on Pacific Coast. But it is not alone in the Orient that the product of the Utah iron mines will the product of the Utah iron mines will other small mines (estimated) 75,350 above St. George. In the southwestern steamships are accustomed to bring part of the state the deposits are coal in ballast from Australia, Engage of the state the deposits are coal in ballast from Australia, Engage of the state the deposits are coal in ballast from Australia, Engage of the state the deposits are coal in ballast from Australia. the world through the genius of the captains of industry who are building up the west. Prophetic vision itself Reduced to its last analysis this could not foretell the railroad exten-

voted to a panegyric upon the future country in the past quarter century greatest strides; that one of the chief has in such abundance, the market for

The former part of this article dealt entirely with the iron resources of the Iron Mountain region in Iron county; but that is not all of the Utah iron are other vast deposits of iron ore yet

The iron fields of Utah are virgin The vast fortunes which iron men of Pennsylvania and other states Utah's iron fields will penetrate to the sands of workingmen whose services uttermost corners of the far east. will be necessary to the development of the industry; it means that here in Utah will be built up a state of wage-workers like unto the great states of the east which were pioneers in the in-

COAL MINES YIELD ENORMOUS OUTPUT

Utah contains probably more un- | coal beds in multitudes of places, so | to see that the market will be widely mined coal than any other state in the that to take out coal it is necessary extended. Union. The importance of this resource of the state is emphasized when with all the costly hoisting machinery coal annually from Puget Sound, Coos considered in connection with the iron so common elsewhere. Utah iron products, if manufactured resources described elsewhere in this issue; for it guarantees an unlimited Evanston, Wyo., forms a large basin built from Salt Lake to San Francisco,

immense iron resources.

The coal production of Utah for 1905, around the eastern end of the moun-

Professor Marcus Jones says that

Utah has 7,000 square miles of coal and. He says: "Geologically, our coals belong to the cretaceous age. After the basin was upheaved in which the coal was formed a large lake was left in the center, the waves of which gradually wore away the shores until the coal deposits

investment of \$15,000,000 in the industry awakening, will utilize this crude prod-uct in the Orient, and by the same per cent, with a probable proft of 60 per cent on steel rails. A synopsis of uct in the manufacture of their own token the west can outsell and under-

laboratory, shops, houses for men, etc.... Cost of ore property Cost of coal property Working capital

If beehive ovens were built at coal nines the investment would be \$1,600,000 Cost Per Ton of Making Bessemer

Pig Iron in Utah. (Based on making coke at coal mines delivered at plant, 1 2-3 tons at Ore delivered at plant, 1 Z-3 tons at 75 cents 1 25

cents
Labor, incidentals, salaries, repairs, renewals and replacements

The cost per ton of making Bessemer pig iron in Utah, based on making coke at works with by-product ovens, is \$2.47. Making Rails in Utah.

"This coal belt enters Utah near Winter Quarters...... 256,550 Colorado and the great basin, whence Uintahs they are very heavy.

Supply for Centuries.

"This coal field, 600 to 1,000 miles long, is ten miles wide in the narrowest twenty-five miles. It is estimated that we have 20,000 square miles of coal away the shores until the coal deposits cropped out in precipices 1,500 feet high. The streams also cut box cansuch thickness as to supply the United States for centuries. There is no coal should be developed. yons at right angles to the shore line, to the west of Utah except some poor lignites, scarcely used, in southern California; so we shall always supply the great basin, and at least part of California, with coal. At Coalville the thick; at Pleasant Valley there are two veins, one thirteen and the other

the largest vein is fourteen feet."

It is a fact well known to coal experts that the Utah coal is splendid coking coal, and this fact is of the highest importance when considered in relation to the tremendous prospective iron industry of the state. Not only is it good coking coal, but it lies in close proximity to the iron fields, and as fast as possible. thus the question of transporting the built in the future is not a serious one.

Has Big Outside Supply.

But Utah, large as her coal possibilition with the Union Pacific, brings coal to Salt Lake from Rock Springs, Wyo. and on the Short Line proper are the big coal mines at Kemmerer, Cumberland and Red Canyon, all in Wyoming, The assurance that the Burlington road will be built into Salt Lake from Guernsey, Wyo., means that new coal mines in Carbon and Uinta counties Wyoming will be opened to the Salt Lake coal market, and the Denver & Northwestern road, now being built by David H. Moffat from Denver to Salt Lake, will furnish an additional supply from Routt county in western Colorado

Big Market for Product.

The development of the Utah coal mines thus far has been extensive enough only to supply the Utah market, and to compete with the Wyoming mines in the adjacent inter-mountain country; but as it increases it is easy reply.

Bay, England, Wales and Australia. The Western Pacific road now being is controlled by the same interests urally will seek, when their road is completed, to extend their coal market

The question of a coal supply is as small, while between Iron City and the land and Wales in order to be assured of a supply on the return trip. That this difficulty will be obviated when the Utah coal fields are developed goes

without saying. place, while in others it may run up to to Los Angeles and San Pedro harbor -is naturally interested in the building up of the Utah coal industry, and

Market in South America.

It is a fact known to men familiar with the coal situation that the coal vein is ten to thirteen feet practically all the coal that is consumed on the coast-save what comes from abroad-from Sitka, Alaska, to twenty-eight feet thick; at Castle Gate Chile. That these mines are inadequate for such a supply is well known and they cannot continue to enjoy this monopoly now that Salt Lake is to be connected with San Francisco and with Los Angeles by two new railroads, one of which is already built and the other of which is being built

But Utah alone will be able to concoal to the iron works which will be sume in a few years an enormous quantity of coal in the development of its iron industry elsewhere described. One steel plant with a capacity of 2,000 tons a day will use 1,460,000 tons of ties are, does not have to depend upon them alone for its fuel supply. The Oregon Short Line, through its connections and the building of time considering its vast iron respectively. of time, considering its vast iron resources.

The development of the coal and fron industries are bound to go ahead in hand, and their development means that Utah will become one of the greatest, if not in time the greatest, industrial states of the union.

PROPER ECONOMY.

(Denver Post.)

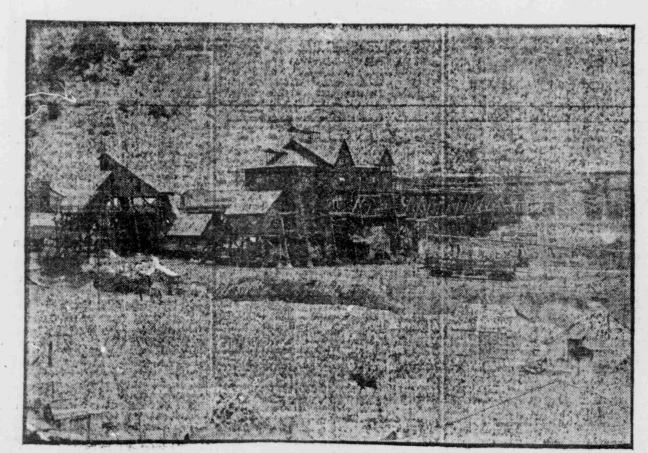
The man in a down-town cheap restaurant had eaten but half of his piece of mince pie. He didn't care for the rest and pushed the plate aside. The waitress came along at that point and began to remove the dishes from the table. The man felt like talking.

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